

MX785281A

W-CDMA Network Simulation Library

Reference test cases for the development of W-CDMA UE

Anritsu Protocol Analyzer

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AMR_02_2003-06-17_14.20.42

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Sequence of messages between RRC, LLA, TE, RLC, MAC, and PHY layers:

- [1] CMAC Configuration CNF (PRACH#0)
- [1] CPHY Radio Link Setup REQ (AICH#0)
- [1] CPHY Radio Link Setup CNF (AICH#0)
- [1] CPHY Radio Link Setup REQ (PICH#0)
- CGEN Log Configuration REQ
- [1] CPHY Radio Link Setup CNF (PICH#0)
- [2] CPHY BTS Power REQ
- [2] CPHY BTS Power CNF
- RLC_TM_DATA_REQ: SystemInformation-BCH (BCCH#0)
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- RLC_TM_DATA_REQ: SystemInformation-BCH (BCCH#0)
- RLC_TM_DATA_REQ: SystemInformation-BCH (BCCH#0)
- [1] MAC_DATA_REQ (BCCH#0)
- [1] MAC_DATA_REQ

Message Details:

```

Opt1: 8
Opt2: 0
BCCH_BCH_Message:
  message:
    sfn_Prime: 0
    payload:
      completeSIE:
        Comp sib_T1 sib_D
        Comp sib_T1 sib_D
  
```

Layer 3 SDU: [0] 00 0E 20 97 00 00 .
 [8] 00 00 A9 88 12 23 |
 [16] 08 95 53 02 28 85 |
 [24] 9A 14 01 00

Features

- Created on the basis of NTT DoCoMo, Inc.'s experience in 3G networks *1.
- Operation verified on an actual 3G UE *2.
- Conforms to 3GPP standard, March '03.
- Easily executable test cases for all.
- Comprehensive display of test results and log information.

*1 The connection with actual base stations is not assured.

*2 The UE was developed for NTT DoCoMo Inc..

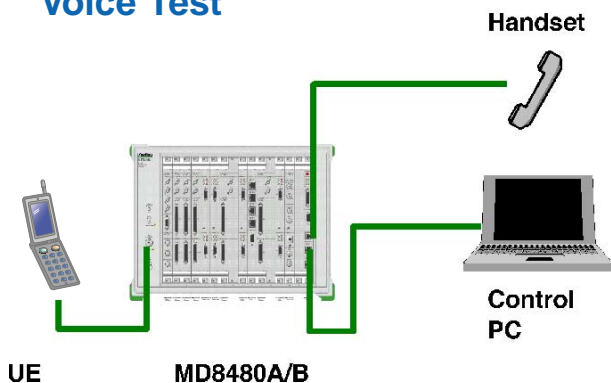
For test and final evaluation in the development of a 3G UE

Summary

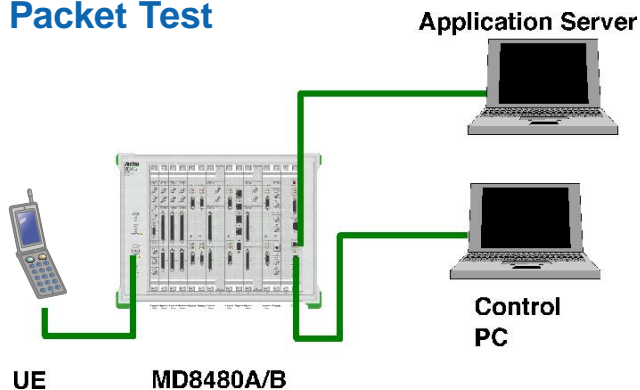
MX785281A W-CDMA Network Simulation Library is an application software package comprising a comprehensive Graphical User Interface together with over 100 test cases which operate on a PC. In combination with MD8480A/B W-CDMA Signalling Tester it performs comprehensive operational and protocol test of a W-CDMA UE. The software enables testing of voice, packet data and SMS including U PLANE to be performed easily.

The test cases are supplied in a ready to run executable form enabling anyone to perform tests immediately after installing the software without needing to create test cases. Test results are displayed in a message sequence chart using the protocol analyzer.

Connection diagram of Voice Test



Connection diagram of Packet Test



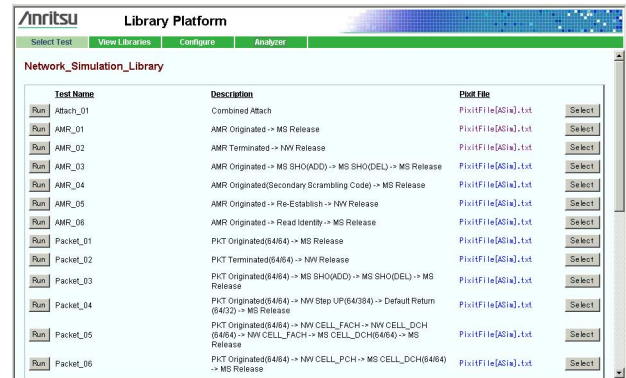
Supporting Test

Attach	Combined Attach
AMR	Origination and MS Release
	Termination and NW Release
	Soft Handover
	Origination (Secondary Scrambling Code)
	Read ID
Packet	Origination and MS Release
	Termination and NW Release
	Soft Handover
	Rate Switching
	RRC StateTransration
	Read ID
SMS	MS Origination
	MS Termination
UDI	Origination and MS Release
Supplementary Service	Call Waiting
	Call Forwarding
	Line Identification
Multi Call	AMR/Packet Origination and MS Release
	AMR/Packet Termination and NW Release
	Soft Handover
	RRC StateTransration

Speedy and simple test case execution screen

This software enables one-click execution of each test case from the test case execution screen.

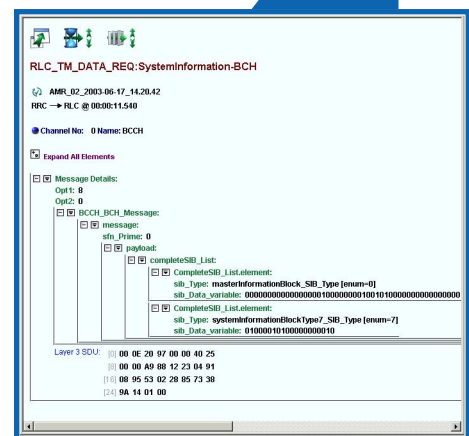
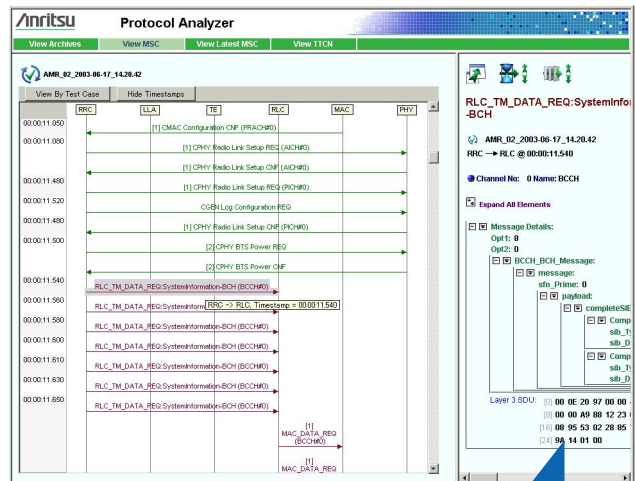
- Test cases are shown in a list for immediate selection and execution of desired tests.
- The dedicated GUI uses an Internet browser window, greatly enhancing the usability.
- User specific Test USIM configuration is supported by modifying the Pixit file.



Comprehensive analysis display Protocol Analyzer

The protocol analyzer displays test results and log information in a browser window.

- Pass/Fail results are displayed for each test case.
- A message sequence chart displays the test results obtained in the left hand window. Protocol message exchanges between the individual network layers and the UE are shown.
- A click on a message in the sequence chart displays the decoded data within that message in the right hand window.



Configuration

MX785281A W-CDMA Network Simulation Library

Required system

*Refer to individual catalogs for details of configuration.

MD8480A/B	MD8480A/B W-CDMA Signalling Tester (V3.10)
	MU848053A RX Baseband
	MU848055A ISDN
	MU848057A Frame Coder
	MU848058A Tx Baseband x 2
	MD8480A-01 Additional RF Unit
	MX848041A W-CDMA Signalling Tester Ciphering (V3.10)
Control PC	Windows 2000 Professional *1 (English ver./ Japanese ver.)
	PentiumIII 800 MHz or more *2
	Memory 256 Mbyte or more
	Hard disk space 2 Gbyte or more
	Display 1280*1024 pixel (SXGA) or more
	Microsoft Internet Explorer 5.5 or later *3
USIM	P0019 Test USIM (Anritsu) *4

*1 Windows2000 Professional is a registered trademark of the Microsoft Corporation.

*2 PentiumIII is a registered trademark of the Intel Corporation.

*3 Internet Explorer is a registered trademark of the Microsoft Corporation.

*4 The operation of this software has been verified by above USIM.

Anritsu

Specifications are subject to change without notice.

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